

ABSTRACT OF THE DISCLOSURE

Systems and methods for high volume, low pressure foam generation are provided that have a wide range of applications, particularly in fire fighting and
5 fire prevention fields. The foam may be effectively delivered to targets that have heretofore been difficult, if not impossible, to reach in a timely, cost effective and/or efficacious manner. Nozzles and nozzle-containing systems are provided for combining water, injected foam and air to generate and/or deliver high
10 volume, low pressure foam. The foam generation systems may be part of portable units that may be worn or otherwise supported by a user (e.g., a back pack), manually transported (e.g., a push cart), or transported with power-assistance (e.g., a power-assist cart). The systems may also be vehicle-mounted. Exemplary
15 nozzle systems include a diffuser unit that facilitates aeration of the water and foam mixture that is fed to the nozzle system. Further nozzle systems include a plurality of circumferentially arrayed nozzle jets directed toward a central axis of the housing for combination with an air flow that is fed thereto.

20